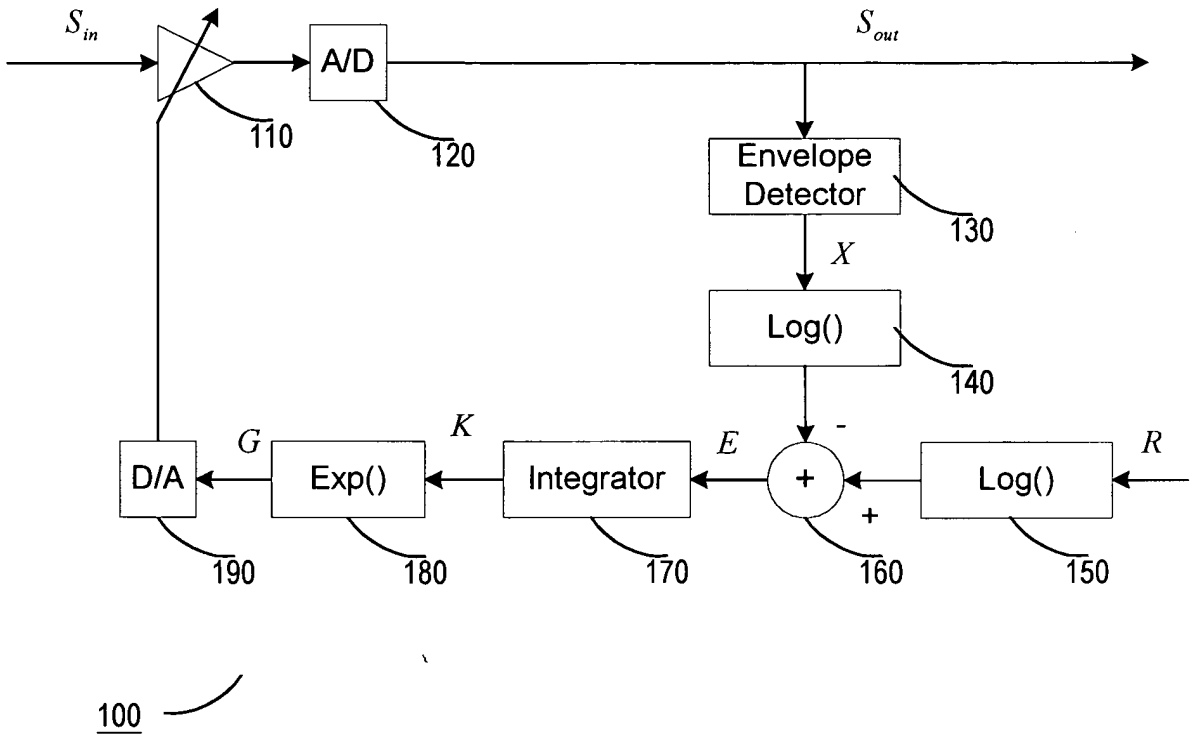
S_{in}
A/D
S_{out}
110
120
Envelope Detector
130
X
Log()
140
G
K
E
-
R
D/A
Exp()
Integrator
+
Log()
+
190
180
170
160
150
100

FIG. 1

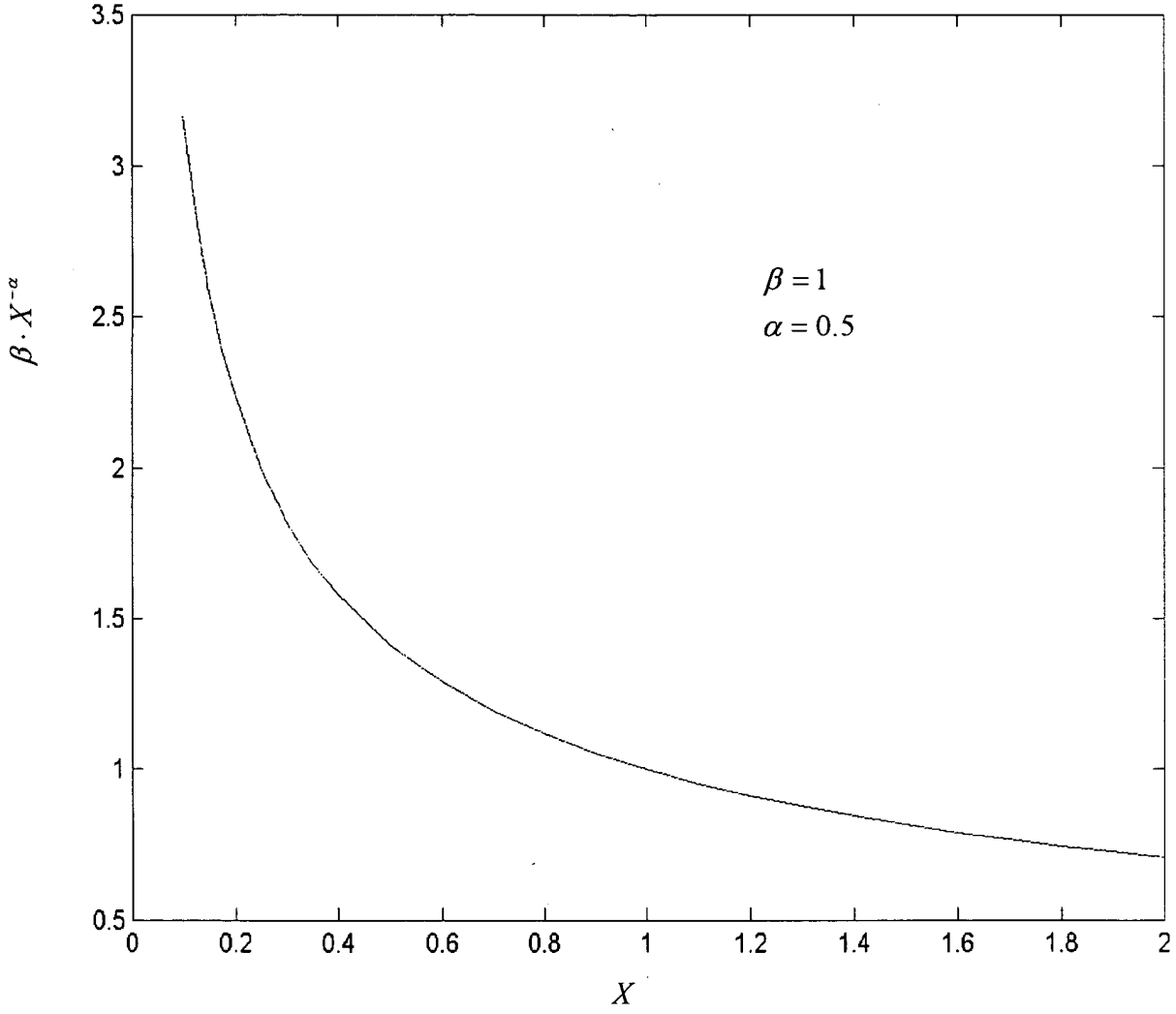
3.5
3
2.5
2
1.5
1
0.5
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
$\beta \cdot X^{-\alpha}$
X
$\beta = 1$
$\alpha = 0.5$

FIG. 2

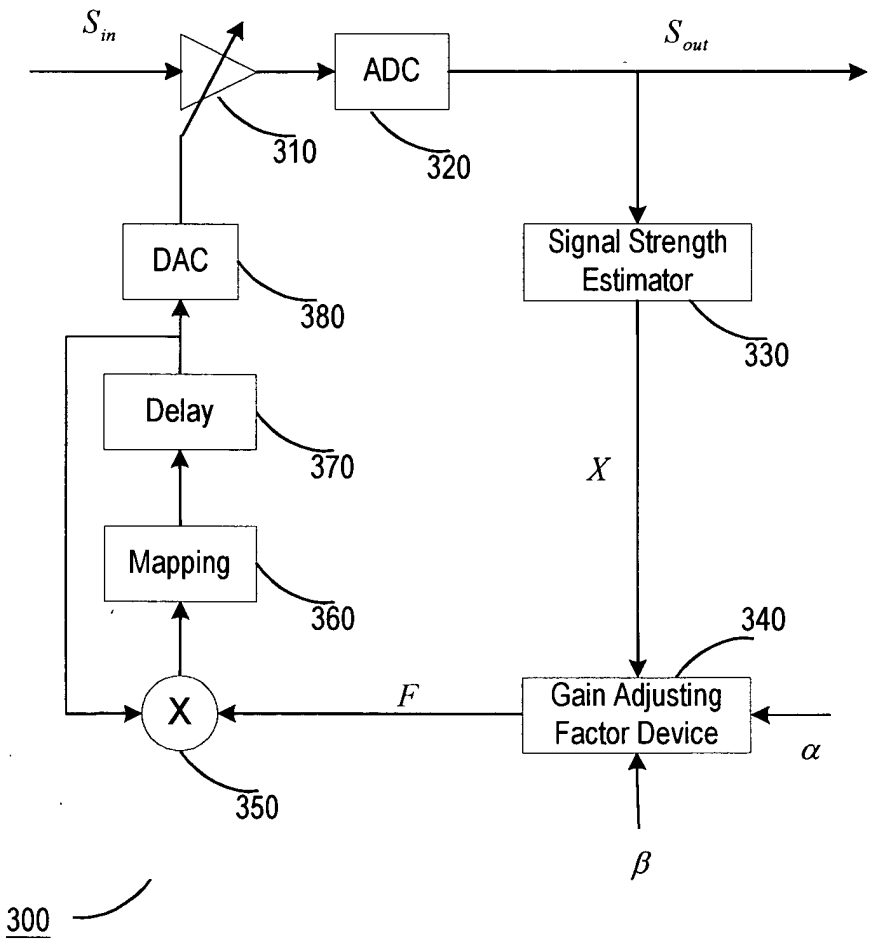
S_{in}
S_{out}
ADC
310
320
DAC
380
Signal Strength Estimator
330
Delay
370
X
Mapping
360
340
X
F
Gain Adjusting Factor Device
α
350
β
300

FIG. 3

Received: 4/5/2004

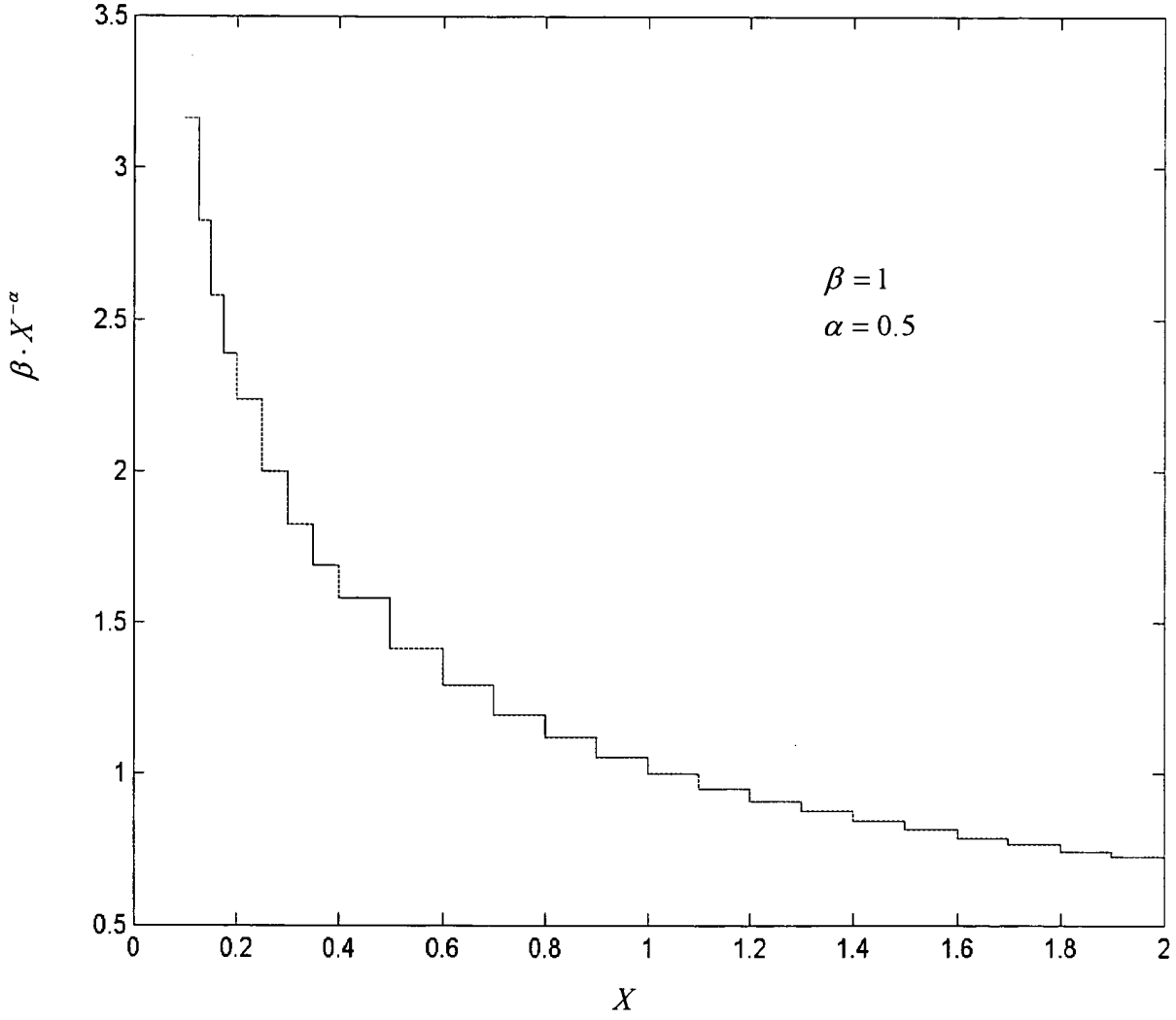

FIG. 4

Reference Signal Strengths = $\begin{bmatrix} 0.1000 \\ 0.1250 \\ 0.1500 \\ 0.1750 \\ 0.2000 \\ 0.2250 \\ 0.2500 \\ 0.2750 \\ 0.3000 \\ 0.4000 \\ 0.5000 \\ 0.6000 \\ 0.7000 \\ 0.8000 \\ 0.9000 \\ 1.0000 \\ 1.1000 \\ 1.2000 \\ 1.3000 \\ 1.4000 \\ 1.5000 \\ 1.6000 \\ 1.7000 \\ 1.8000 \\ 1.9000 \\ 2.0000 \end{bmatrix}$

Reference Gain Adjusting Factors = $\begin{bmatrix} 3.1623 \\ 2.8284 \\ 2.5820 \\ 2.3905 \\ 2.2361 \\ 2.1082 \\ 2.0000 \\ 1.9069 \\ 1.8257 \\ 1.5811 \\ 1.4142 \\ 1.2910 \\ 1.1952 \\ 1.1180 \\ 1.0541 \\ 1.0000 \\ 0.9535 \\ 0.9129 \\ 0.8771 \\ 0.8452 \\ 0.8165 \\ 0.7906 \\ 0.7670 \\ 0.7454 \\ 0.7255 \\ 0.7071 \end{bmatrix}$

FIG. 5

Scanned with CamScanner

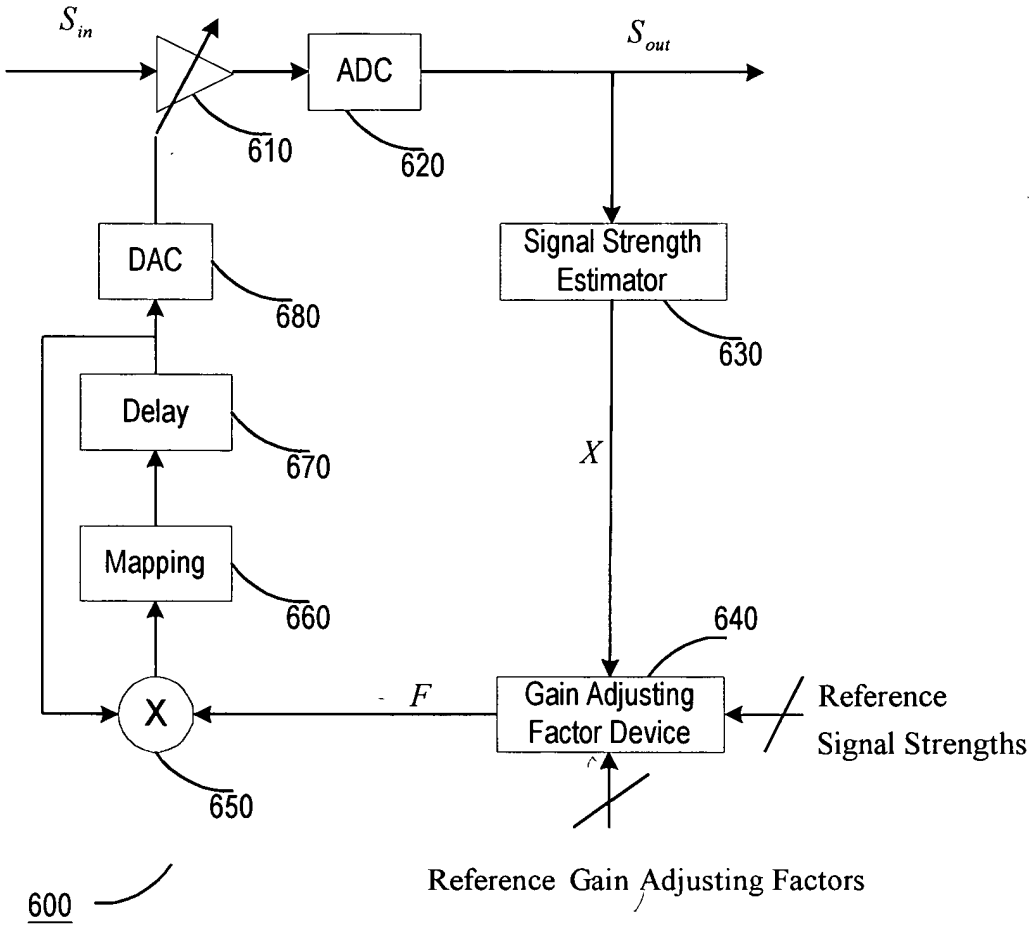

FIG. 6

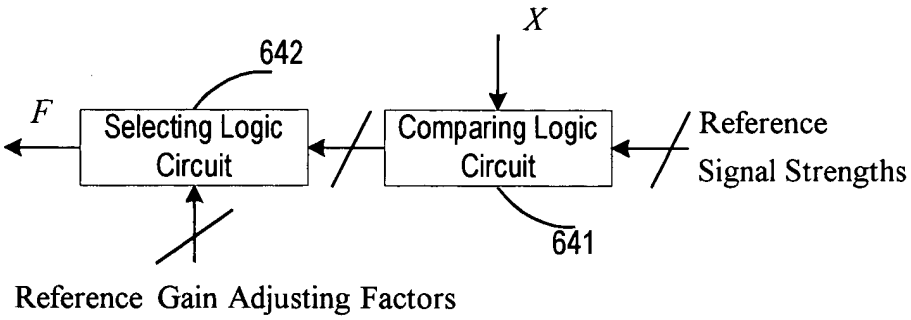

FIG. 7

EP 0 954 094 A2

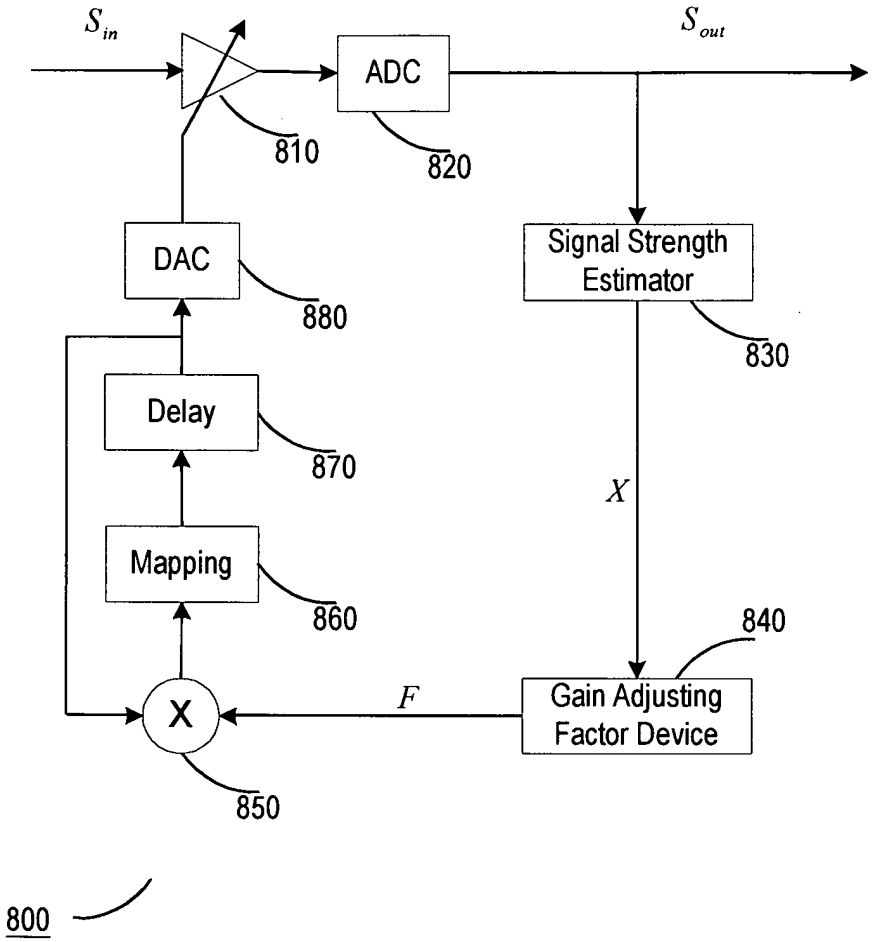
S_{in}
S_{out}
ADC
810
820
DAC
880
Signal Strength Estimator
830
Delay
870
X
Mapping
860
840
X
F
Gain Adjusting Factor Device
850
800

FIG. 8

Document: 4d95ff.tif

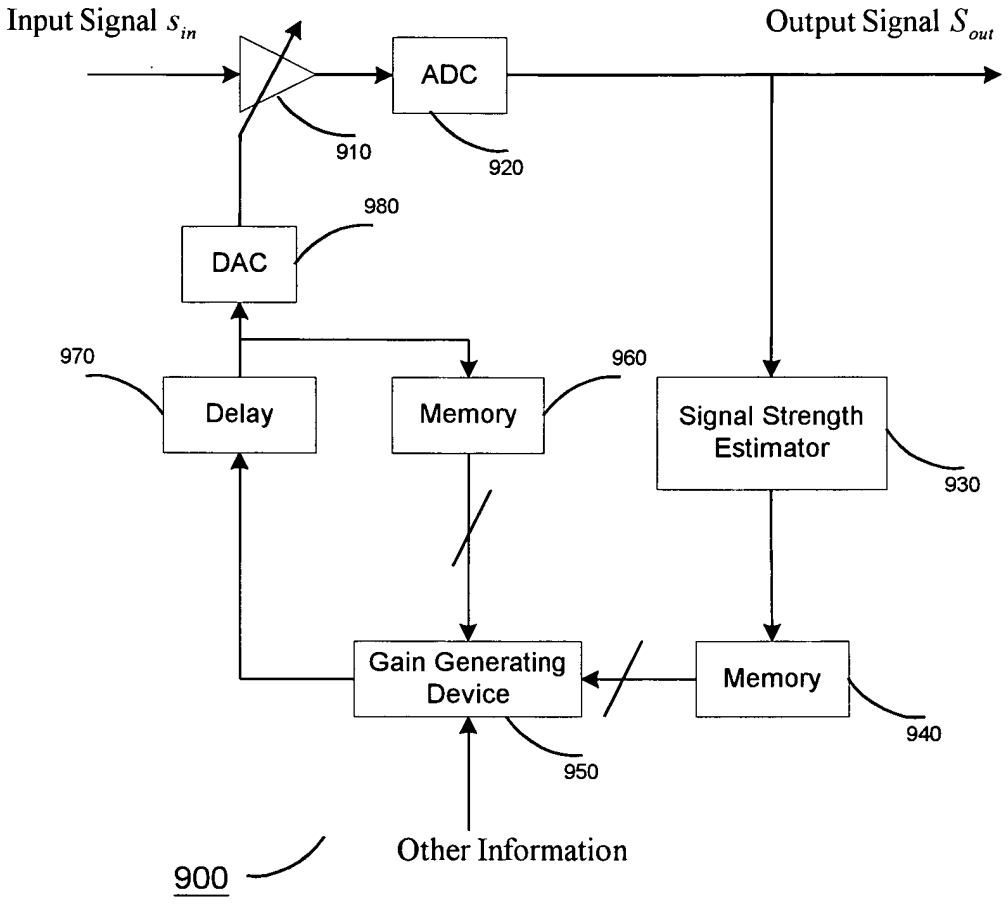

FIG. 9